

10/804,822

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(FILE 'HOME' ENTERED AT 17:07:59 ON 04 OCT 2007)

FILE 'MEDLINE, CAPLUS, BIOSIS, SCISEARCH, LIFESCI' ENTERED AT 17:08:22 ON 04 OCT 2007

L1 211 S PODOCALYXIN-LIKE(3A) (PROTEIN OR POLYPEPTIDE) OR PODXL
L2 1565148 S UNDIFFERENTIAT? OR DIFFERENTIAT?
L3 39 S L1(P)L2
L4 18 DUP REM L3 (21 DUPLICATES REMOVED)
L5 5388 S HUMAN(3A) EMBRYONIC(W) (STEM OR CARCINOMA) (W) CELL
L6 5 S L4 AND L5

=> d au ti so pi 1-5 16

L6 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
IN Choo, Andre
TI Culture and differentiation of human embryonic
stem cells expressing PODXL and elimination of
undifferentiated cells using cytotoxic anti-PODXL
antibody

SO PCT Int. Appl., 66pp.
CODEN: PIXXD2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007102787	A1	20070913	WO 2007-SG64	20070306
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			

L6 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
AU Luo, Yongquan; Schwartz, Catherine; Shin, Soojung; Zeng, Xianmin; Chen, Nong; Wang, Yue; Yu, Xiang; Rao, Mahendra S.
TI A focused microarray to assess dopaminergic and glial cell differentiation from fetal tissue or embryonic stem cells
SO Stem Cells (Durham, NC, United States) (2006), 24(4), 865-875
CODEN: STCEEJ; ISSN: 1066-5099

L6 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
IN Stanton, Lawrence W.; Brandenberger, Ralph; Brunette, Elisa; Gold, Joseph D.; Irving, John M.; Mandalam, Ramkumar; Mok, Michael; Powell, Sandra E.
TI Standardization of growth conditions and marker system for human embryonic stem cells intended for use in regenerative medicine

SO U.S. Pat. Appl. Publ., 22 pp., Cont.-in-part of Appl. No. PCT/EP04/002808.
CODEN: USXXCO

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2006134636	A1	20060622	US 2004-804822	20040319
US 2003224411	A1	20031204	US 2003-388578	20030313
US 2004180347	A1	20040916	US 2003-389431	20030313
US 7153650	B2	20061226		
WO 2004083406	A2	20040930	WO 2004-US8883	20040313
WO 2004083406	A3	20050331		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,			

CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
 GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
 LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
 NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
 TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
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 ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
 SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN,
 TD, TG

WO 2004080146 A2 20040923 WO 2004-EP2808 20040315
 WO 2004080146 A3 20050909

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
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 NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
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 RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
 BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE,
 ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
 SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN,
 TD, TG

L6 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
 IN Stanton, Lawrence W.; Brandenberger, Ralph; Gold, Joseph D.; Irving, John
 M.; Mandalam, Ramkumar; Mok, Michael
 TI Marker system for preparing and characterizing high-quality human
 embryonic stem cells for human therapy
 SO U.S. Pat. Appl. Publ., 57 pp.
 CODEN: USXXCO

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004180347	A1	20040916	US 2003-389431	20030313
	US 7153650	B2	20061226		
	WO 2004080146	A2	20040923	WO 2004-EP2808	20040315
	WO 2004080146	A3	20050909		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	US 2006134636	A1	20060622	US 2004-804822	20040319

L6 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
 IN Stanton, Lawrence W.; Brandenberger, Ralph; Gold, Joseph D.; Irving, John
 M.; Mandalam, Ramkumar; Mok, Michael; Shelton, Dawne
 TI Genes that are up- or down-regulated during differentiation of
 human embryonic stem cells
 SO U.S. Pat. Appl. Publ., 106 pp.
 CODEN: USXXCO

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003224411	A1	20031204	US 2003-388578	20030313
	WO 2004083406	A2	20040930	WO 2004-US8883	20040313
	WO 2004083406	A3	20050331		
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GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
 LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
 NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
 TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
 BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE,
 ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
 SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN,
 TD, TG

EP 1608738	A2	20051228	EP 2004-757690	20040313
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK				
GB 2415781	A	20060104	GB 2005-20847	20040313
GB 2415781	B	20070718		
GB 2434867	A	20070808	GB 2007-8707	20040313
US 2006134636	A1	20060622	US 2004-804822	20040319

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(FILE 'HOME' ENTERED AT 17:07:59 ON 04 OCT 2007)

FILE 'MEDLINE, CAPLUS, BIOSIS, SCISEARCH, LIFESCI' ENTERED AT 17:08:22 ON 04 OCT 2007

L1 211 S PODOCALYXIN-LIKE(3A) (PROTEIN OR POLYPEPTIDE) OR PODXL
L2 1565148 S UNDIFFERENTIAT? OR DIFFERENTIAT?
L3 39 S L1(P)L2
L4 18 DUP REM L3 (21 DUPLICATES REMOVED)

=> d au ti so pi 1-18 14

L4 ANSWER 1 OF 18 CAPLUS COPYRIGHT 2007 ACS on STN
IN Choo, Andre
TI Culture and differentiation of human embryonic stem cells
expressing PODXL and elimination of undifferentiated
cells using cytotoxic anti-PODXL antibody
SO PCT Int. Appl., 66pp.

CODEN: PIXXD2

PATENT NO.

KIND

DATE

APPLICATION NO.

DATE

PI	WO 2007102787	A1	20070913	WO 2007-SG64	20070306
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

L4 ANSWER 2 OF 18 MEDLINE on STN DUPLICATE 1
AU Sathyanarayana Pradeep; Menon Madhu P; Bogacheva Olga; Bogachev Oleg; Niss Knut; Kapelle William S; Houde Estelle; Fang Jing; Wojchowski Don M
TI Erythropoietin modulation of podocalyxin and a proposed erythroblast niche.
SO Blood, (2007 Jul 15) Vol. 110, No. 2, pp. 509-18. Electronic Publication: 2007-04-02.
Journal code: 7603509. ISSN: 0006-4971.

L4 ANSWER 3 OF 18 MEDLINE on STN DUPLICATE 2
AU Ney Jasmin Teresa; Zhou Hui; Sipos Bence; Buttner Reinhard; Chen Xin; Kloppel Gunter; Gutgemann Ines
TI Podocalyxin-like protein 1 expression is useful to differentiate pancreatic ductal adenocarcinomas from adenocarcinomas of the biliary and gastrointestinal tracts.
SO Human pathology, (2007 Feb) Vol. 38, No. 2, pp. 359-64. Electronic Publication: 2006-11-29.
Journal code: 9421547. ISSN: 0046-8177.

L4 ANSWER 4 OF 18 CAPLUS COPYRIGHT 2007 ACS on STN
IN Stanton, Lawrence W.; Brandenberger, Ralph; Brunette, Elisa; Gold, Joseph D.; Irving, John M.; Mandalam, Ramkumar; Mok, Michael; Powell, Sandra E.
TI Standardization of growth conditions and marker system for human embryonic stem cells intended for use in regenerative medicine
SO U.S. Pat. Appl. Publ., 22 pp., Cont.-in-part of Appl. No. PCT/EP04/002808.
CODEN: USXXCO
PATENT NO. KIND DATE APPLICATION NO. DATE

PI	US 2006134636	A1	20060622	US 2004-804822	20040319
	US 2003224411	A1	20031204	US 2003-388578	20030313
	US 2004180347	A1	20040916	US 2003-389431	20030313
	US 7153650	B2	20061226		
	WO 2004083406	A2	20040930	WO 2004-US8883	20040313
	WO 2004083406	A3	20050331		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

WO 2004080146	A2	20040923	WO 2004-EP2808	20040315
WO 2004080146	A3	20050909		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

L4 ANSWER 5 OF 18 CAPLUS COPYRIGHT 2007 ACS on STN

AU Luo, Yongquan; Schwartz, Catherine; Shin, Soojung; Zeng, Xianmin; Chen, Nong; Wang, Yue; Yu, Xiang; Rao, Mahendra S.

TI A focused microarray to assess dopaminergic and glial cell differentiation from fetal tissue or embryonic stem cells

SO Stem Cells (Durham, NC, United States) (2006), 24(4), 865-875
CODEN: STCEEJ; ISSN: 1066-5099

L4 ANSWER 6 OF 18 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN

AU Sathyanarayana, Pradeep [Reprint Author]; Menon, Madhu P.; Bogacheva, Olga; Bogachev, Oleg; Kapelle, William S.; Houde, Estelle; Wojchowski, Don M.

TI Erythropoietin modulation of podocalyxin within an erythroblast niche.

SO Blood, (NOV 16 2006) Vol. 108, No. 11, Part 1, pp. 404A.
Meeting Info.: 48th Annual Meeting of the American-Society-of-Hematology. Orlando, FL, USA. December 09 -12, 2006. Amer Soc Hematol.
CODEN: BLOOAW. ISSN: 0006-4971.

L4 ANSWER 7 OF 18 MEDLINE on STN DUPLICATE 3

AU Heukamp L C; Fischer H P; Schirmacher P; Chen X; Breuhahn K; Nicolay C; Buttner R; Gutgemann I

TI Podocalyxin-like protein 1 expression in primary hepatic tumours and tumour-like lesions.

SO Histopathology, (2006 Sep) Vol. 49, No. 3, pp. 242-7.
Journal code: 7704136. ISSN: 0309-0167.

L4 ANSWER 8 OF 18 MEDLINE on STN DUPLICATE 4

AU Doyonnas Regis; Nielsen Julie S; Chelliah Shierley; Drew Erin; Hara Takahiko; Miyajima Atsushi; McNagny Kelly M

TI Podocalyxin is a CD34-related marker of murine hematopoietic stem cells and embryonic erythroid cells.

SO Blood, (2005 Jun 1) Vol. 105, No. 11, pp. 4170-8. Electronic Publication: 2005-02-08.

Journal code: 7603509. ISSN: 0006-4971.

L4 ANSWER 9 OF 18 MEDLINE on STN DUPLICATE 5
AU Herrera Luisa; Ottolenghi Chris; Garcia-Ortiz J Elias; Pellegrini Massimo;
Manini Francesca; Ko Minoru S H; Nagaraja Ramaiah; Forabosco Antonino;
Schlessinger David
TI Mouse ovary developmental RNA and protein markers from gene expression
profiling.
SO Developmental biology, (2005 Mar 15) Vol. 279, No. 2, pp. 271-90.
Journal code: 0372762. ISSN: 0012-1606.

L4 ANSWER 10 OF 18 CAPLUS COPYRIGHT 2007 ACS on STN
IN Stanton, Lawrence W.; Brandenberger, Ralph; Gold, Joseph D.; Irving, John
M.; Mandalam, Ramkumar; Mok, Michael
TI Marker system for preparing and characterizing high-quality human
embryonic stem cells for human therapy
SO U.S. Pat. Appl. Publ., 57 pp.
CODEN: USXXCO

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 2004180347	A1	20040916	US 2003-389431	20030313
US 7153650	B2	20061226		
WO 2004080146	A2	20040923	WO 2004-EP2808	20040315
WO 2004080146	A3	20050909		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
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US 2006134636	A1	20060622	US 2004-804822	20040319

L4 ANSWER 11 OF 18 MEDLINE on STN DUPLICATE 6
AU Kerosuo Laura; Juvonen Eeva; Alitalo Riitta; Gylling Mikhail; Kerjaschki
Dontscho; Miettinen Aaro
TI Podocalyxin in human haematopoietic cells.
SO British journal of haematology, (2004 Mar) Vol. 124, No. 6, pp. 809-18.
Journal code: 0372544. ISSN: 0007-1048.

L4 ANSWER 12 OF 18 CAPLUS COPYRIGHT 2007 ACS on STN
IN Stanton, Lawrence W.; Brandenberger, Ralph; Gold, Joseph D.; Irving, John
M.; Mandalam, Ramkumar; Mok, Michael; Shelton, Dawne
TI Genes that are up- or down-regulated during differentiation of human
embryonic stem cells
SO U.S. Pat. Appl. Publ., 106 pp.
CODEN: USXXCO

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 2003224411	A1	20031204	US 2003-388578	20030313
WO 2004083406	A2	20040930	WO 2004-US8883	20040313
WO 2004083406	A3	20050331		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE,			

ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN,
TD, TG

EP 1608738 A2 20051228 EP 2004-757690 20040313
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IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK
GB 2415781 A 20060104 GB 2005-20847 20040313
GB 2415781 B 20070718
GB 2434867 A 20070808 GB 2007-8707 20040313
US 2006134636 A1 20060622 US 2004-804822 20040319

L4 ANSWER 13 OF 18 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on
STN
AU Onitsuka, Izumi [Reprint Author]; Okabe, Tomoya [Reprint Author]; Yahara,
Ichiro [Reprint Author]; Takeuchi, Masaki; Miyajima, Atsushi
TI Two distinct progenitors for endothelial and hematopoietic systems are
defined by the expression of podocalyxin-like protein.
SO Blood, (November 16 2003) Vol. 102, No. 11, pp. 166a-167a. print.
Meeting Info.: 45th Annual Meeting of the American Society of Hematology.
San Diego, CA, USA. December 06-09, 2003. American Society of Hematology.
CODEN: BLOOAW. ISSN: 0006-4971.

L4 ANSWER 14 OF 18 CAPLUS COPYRIGHT 2007 ACS on STN
IN Miettinen, Aaro; Kerosuo, Laura; Kerjaschki, Dentscho
TI Marker for identifying hematopoietic stem cells
SO PCT Int. Appl., 73 pp.
CODEN: PIXXD2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002102837	A2	20021227	WO 2002-EP5918	20020529
	WO 2002102837	A3	20030828		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW			
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L4 ANSWER 15 OF 18 MEDLINE on STN DUPLICATE 7
AU Anisimov Sergey V; Tarasov Kirill V; Riordon Daniel; Wobus Anna M; Boheler
Kenneth R
TI SAGE identification of differentiation responsive genes in P19 embryonic
cells induced to form cardiomyocytes in vitro.
SO Mechanisms of development, (2002 Sep) Vol. 117, No. 1-2, pp. 25-74.
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L4 ANSWER 16 OF 18 CAPLUS COPYRIGHT 2007 ACS on STN
IN Miyajima, Atsushi; Hara, Takahiko
TI Podocalyxin-like protein 1 as a novel cell surface marker for
hemangioblasts in the murine aorta-gonad-mesonephros region
SO PCT Int. Appl., 70 pp.
CODEN: PIXXD2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001034797	A1	20010517	WO 2000-JP7817	20001107
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD,			

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 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
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 AU 2001010579 A5 20010606 AU 2001-10579 20001107
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L4 ANSWER 17 OF 18 CAPLUS COPYRIGHT 2007 ACS on STN
 IN Rosen, Steven D.; Sassetti, Christopher M.
 TI Podocalyxin-like sialomucins having selectin ligand activity
 SO PCT Int. Appl., 63 pp.

CODEN: PIXXD2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9941363	A1	19990819	WO 1999-US1780	19990128
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW				
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L4 ANSWER 18 OF 18 MEDLINE on STN DUPLICATE 8
 AU Nagata M; Nakayama K; Terada Y; Hoshi S; Watanabe T
 TI Cell cycle regulation and differentiation in the human podocyte lineage.
 SO The American journal of pathology, (1998 Nov) Vol. 153, No. 5, pp.
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=> d ab 14-18 14

L4 ANSWER 14 OF 18 CAPLUS COPYRIGHT 2007 ACS on STN
 AB The present invention is related to a method for identifying, isolating
 and manufacturing pluripotent hematopoietic stem useful as transplants for
 treating blood diseases. The hematopoietic stem cells and/or committed
 progenitor cells are identified using antibodies capable of specifically
 recognizing human podocalyxin-like proteins
 (hPCLPs) expressed in hematopoietic tissues. The human hematopoietic
 tissue derived glycosylated human hematopoietic podocalyxin-
 like proteins (hhPCLPs) are useful as markers for
 assessing the quality of stem cells obtained by conventional methods and
 which comprise only a fraction of undifferentiated pluripotent
 stem cells. The hhPCLP differs from other known PCLPs in that it is
 obtainable from the hematopoietic tissue, has a specific glycosylation
 pattern and in its glycosylated form an apparent MW of 100-110 kDa. Said
 hhPCLP can be identified with antibodies raised against PCLPs from
 different species and tissues by per se known methods.

L4 ANSWER 15 OF 18 MEDLINE on STN DUPLICATE 7
AB Transcriptome profiling facilitates the identification of developmentally regulated genes. To quantify the functionally active genome of P19 embryonic carcinoma (EC) cells induced to form cardiomyocytes, we employed serial analysis of gene expression (SAGE) to sequence and compare a total of 171,735 SAGE tags from three libraries (undifferentiated P19 EC cells, differentiation days 3 + 0.5 and 3 + 3.0). After in vitro differentiation, only 3.1% of the gene products demonstrated significant ($P < 0.05$) changes in expression. The most highly significant changes ($P < 0.01$) involved altered expression of 410 genes encoding predominantly transcription factors, differentiation factors and growth regulators. Quantitative polymerase chain reaction analysis and in situ hybridization revealed five growth regulators (Dlk1, Igfbp5, Hmga2, Podxl and Ptn) and two unknown ESTs with expression profiles similar to known cardiac transcription factors, implicating these growth regulators in cardiac differentiation. These SAGE libraries thus serve as a reference resource for understanding the role of differentiation-dependent genes in embryonic stem cell models induced to form cardiomyocytes in vitro.
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L4 ANSWER 16 OF 18 CAPLUS COPYRIGHT 2007 ACS on STN
AB A method of preparing a cell fraction containing hemangioblasts, by fractionating PCLP1-pos./CD45-neg. cells, using antibodies, is disclosed. These cells differentiate into endothelioid cells, angioblast-like cells and hematopoietic cells. By transferring the PCLP1-pos./CD45-neg. cells into a mouse defective in the hematopoietic function, the hematopoietic system is reconstructed over a long time. These facts indicate that the PCLP1-pos./CD45-neg. cells might contain mammalian hemangioblasts capable of expressing the activity as long terminal reconstructive hematopoietic stem cells (LTR-HSC). Recent studies with avian embryos and murine embryonic stem cells have suggested that hematopoietic cells are derived from hemangioblasts, the common precursors of hematopoietic and endothelial cells. We molecularly cloned podocalyxin-like protein 1 (PCLP1) as a novel surface marker for endothelial-like cells in the aorta-gonad-mesonephros (AGM) region of mouse embryos, where long-term repopulating hematopoietic stem cells (LTR-HSCs) are known to arise. PCLP1+ CD45- cells in the AGM region incorporated acetylated low-d. lipoprotein and produced both hematopoietic and endothelial cells when cocultured with OP9 stromal cells. Moreover, multiple lineages of hematopoietic cells were generated in vivo when PCLP1+CD45- cells were injected into neonatal liver of busulfan-treated mice. Thus, PCLP1 can be used to sep. hemangioblasts that give rise to LTR-HSCs.

L4 ANSWER 17 OF 18 CAPLUS COPYRIGHT 2007 ACS on STN
AB Podocalyxin-like proteins (e.g. PCLP and PCLP-2) having selectin ligand activity are provided. Also provided are cDNA compns. encoding a novel human PCLP-2 protein. PCLP proteins are highly glycosylated glycoproteins that contain (1) a mucin domain, (2) a cysteine-rich domain, (3) a transmembrane domain, and (4) cytoplasmic domain; PCLP-2 contains an N-terminal domain which differentiates it from PCLP. The subject polypeptide and nucleic acid compns. find use in a variety of applications, including research, diagnostic, and therapeutic agent screening applications, as well as in treatment therapies for disease conditions associated with podocalyxin-like protein activity. In particular, methods of treating diseases associated with podocalyxin-like protein selectin binding activity and/or chemokine presenting activity are provided, where such diseases include inflammation and the like.

AB Mature podocytes are regarded as growth-arrested cells with characteristic phenotypic features that underlie their function. To determine the relationship between cell cycle regulation and differentiation, the spatiotemporal expression of cyclin A, cyclin B1, cyclin D1, the cyclin-dependent kinase inhibitors (CKIs) p27 and p57, and markers of differentiating podocytes in developing human kidneys was investigated by immunohistochemistry. In S-shaped body stage, Ki-67, a cell proliferation marker that labels the G1/S/G2/M phase, was expressed in the majority (more than 80%) of presumptive podocytes, along with cyclin A (approximately 20% of the Ki-67-positive cells) and cyclin B1 (less than 5% of Ki-67-positive cells) expression. Among these cells, cyclin D1 and CKIs were markedly down-regulated. At the capillary-loop stage, by contrast, CKIs and cyclin D1 were intensely positive in podocytes, whereas no Ki-67, cyclin B1, or cyclin A expression was seen. Moreover, double-immunolabeling and serial-section analysis provided evidence that CKIs and markers specific for differentiating podocytes, namely PHM-5 (podocalyxin-like protein in humans), synaptopodin (a foot process-related protein), and C3b receptor, were co-expressed at the capillary-loop stage. Podocytes were the only cells within the glomeruli that expressed CKIs at immunohistochemically detectable levels. Furthermore, bcl-2 (an apoptosis inhibitory protein) showed a reciprocal expression pattern to that of CKI. These results suggest that 1) the cell cycle of podocytes is regulated by cyclin and CKIs, 2) CKIs may act to arrest the cell cycle in podocytes at the capillary-loop stage, and 3) the specific cell cycle system in podocytes may be closely correlated with their terminal differentiation in humans.

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<u>L2</u>	podocalyxin-like near3 (protein or polypeptide) or podxl	72	<u>L2</u>
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